BENEFON SERAPH NT 2.0 Quick Guide

Benefon Seraph NT protection device is designed to be your personal "guardian angel" - intended for all areas of personal and professional safety.

Instructed by simple icons, the device is especially suitable for children and elderly people as well as for applications or situations where simplicity and robustness is a must.

Manufacturer:
Benefon Oyj, P.O. Box 84,
24101 Salo, Finland

Web site: www.benefon.com

CE

Benefon Oyj declares that this mobile phone, type TGP79EE, is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

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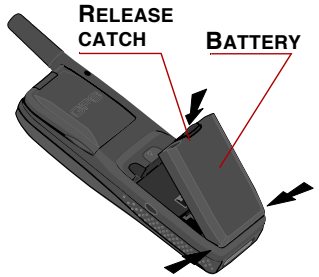
Some of the features described in this guide are optional and intended to be purchased separately. For more information, please contact your dealer.

For more information, details and descriptions, including device configuration and assortment of chargers and accessories, see the Benefon Seraph NT Operating Instructions, or visit the web site: www.benefon.com.

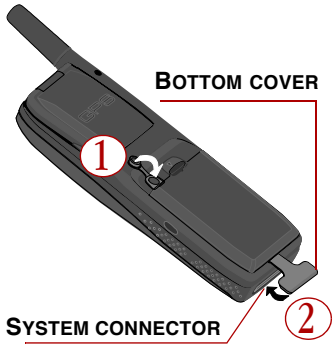
WHAT TO DO FIRST

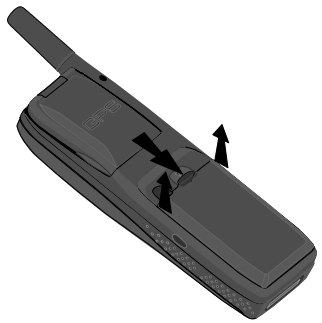
INSERTING RUBBER SEAL AND FITTING AND REMOVING THE BATTERY

The device is dust and splash proof. The protection category for the device is IPX4. To meet these requirements, the rubber seal must be inserted in place correctly.



1. Slide the battery downwards, towards the lower corners.
2. Push the battery into the device until it locks in place, and make sure the release catch has clicked into place (upward position).
3. The battery should be securely fastened in the battery hole.
4. Lift the cap on the top of the rubber tab (1).
5. When the cable/charger connection is not needed, stuff the bottom cover into the system connector so that the cover will be firmly secured around the connector (2).





REMOVING THE BATTERY:
Push the release catch downwards and pull the battery carefully away from the device.

INSERTING THE SIM CARD

1. Slide the SIM card holder to the right. Lift the holder into an upright position.
2. Insert the card into the holder. Check that the cut corner is at the lower left side of the holder.
3. Close the holder by pushing it towards the phone. Slide the holder back to the left until it locks.

INITIALIZING THE DEVICE

When you start using the device for the first time, you should **charge the battery first.** Please note that the battery will reach its full capacity only after two or three charging times.

POWER SUPPLY

- Mains charger CMA-70-230 (with the standard charger cable FMC70 or robust charger cable FMC79)
- Cigarette lighter charger CCS-71-12
- Standard Li-Ion batteries 650 mAh (BBL77S), 900 mAh (BBL77N), 1200 mAh (BBL77P), 1700 mAh (BBL77G)
- Special Li-Ion battery 1200 mAh including Vertical sensor component (BBL79P). This special battery only works under these conditions: The NT 2.0 software is installed and the Vertical sensor feature is purchased and activated in the device.

The battery type may vary depending on the market area and sales package. In unclear cases, check the battery compatibility with the dealer.

MAINS CHARGER

The mains charger should only be used indoors. Make sure that the voltage in the country which you are staying corresponds to the voltage (230 V) of the charger.

When charging, connect the round end of the charger cable into the charger base and lock it by turning it half a turn clockwise.

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Plug the cable´s square end/flat end (with the arrow/button facing up) into the system connector on the device. Plug the charger into a mains outlet. Charging will start automatically.

CHARGING

The device controls the charging status, the battery temperature and power supply during the charging operation.

The ideal temperature range for charging is +10°...+30°C. If charging the battery above or below these temperatures the life of a battery may be shortened. Also, the battery may not reach full capacity.

When charging the Li-Ion batteries with the quick charger, about 70% of the battery capacity will be charged quickly, but charging the remaining 30% takes relatively more time. Also note that humidity, temperature, age of the battery and currently used features (e.g. the GPS) affect the time spent on charging.

BATTERY CARE, MAINTENANCE AND DISPOSAL

The continuous operating time is less when using an old battery than a new battery. When storing batteries for a long time, the batteries should be kept cool and fully charged in a dry place.

Li-Ion batteries do not contain heavy metals which can damage the environment. Li-Ion batteries should be disposed of according to the country-specific regulations.

ENVIRONMENTAL EFFECTS IN USAGE

SIGHT

The device must have an unobstructed view to satellites at any time. In marginal conditions (e.g. when staying in surroundings with heavy tree cover or in a shadow area in between base stations) an external GPS antenna, possibly even a GSM antenna, must be installed.

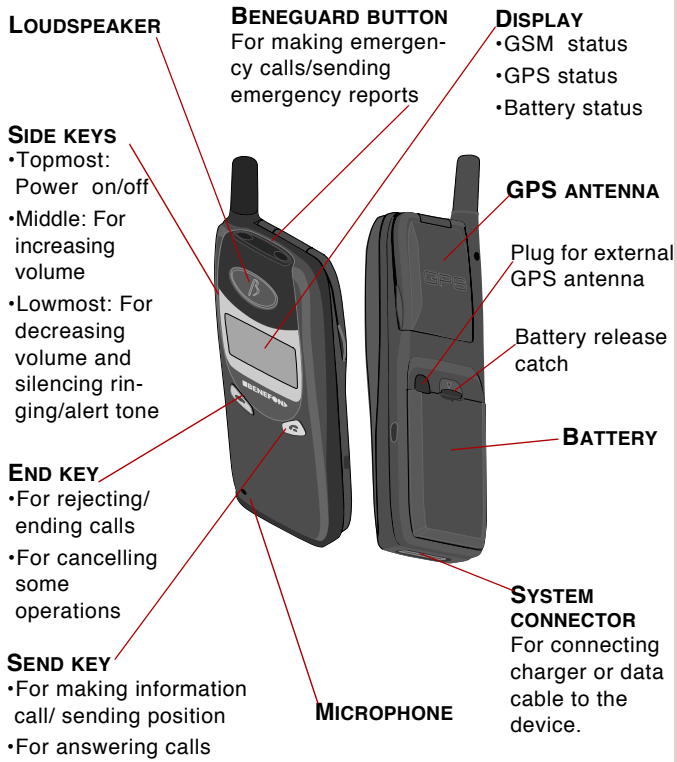
The device can be used like a standard GSM phone. In some cases, the device can be built in clothes or special vests. If the device is mounted somehow, it must be attached to the surface so that the back of the device is facing up. To ensure proper functioning of the GPS, the GPS antenna can be covered with plastic, fiber glass or clothes, but not with metal.

TEMPERATURE RANGES

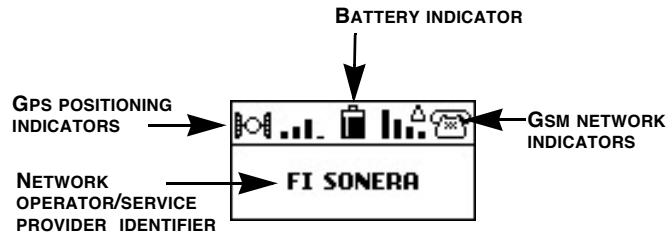
- **Usage**: -20 to +55 °C with a standard Li-Ion battery
- **Charging**: Standard Li-Ion battery must not be charged below °0. Likewise, charging above +55 °C is prevented.

At temperatures below -25 °C, or above +60 °C, the battery will not supply power and the device cannot be used. Upon warming up/cooling down, the device will function properly again.

USER INTERFACE



DISPLAY INDICATORS



BATTERY STATUS

The water level indicates charge left in the battery. The higher the level, the more charge is left.

During charging, the water level will move upwards and downwards, freezing for a quick moment to show the current charge status, and start over.
When the water level stops moving, the battery is fully charged (or the charger is disconnected).

Battery failure/Battery too cold/Battery too warm. Shown in the middle of the display. Simultaneously, the **Failure** tone is played once.

GSM NETWORK STATUS

GSM is on

GSM is off/Incorrect PIN code has been entered, or **invalid SIM** card inserted.

A triangle is shown beside the GSM icon when the **device is roaming** (using other than own network).

Bars on the right indicate strength of the GSM network. The more bars and the taller the bars, the better the GSM network.
- Four bars - high network strength
- No bars - no network.

GPS POSITIONING STATUS

GPS is active

GPS is sleeping

GPS is turned off /GPS has encountered an error

Bars on the left indicate accuracy of the latest position fix; The more bars and the taller the bars, the better the position.
- Four bars - the most accurate position
- No bars - no position.

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DISPLAY/TONE NOTIFICATIONS

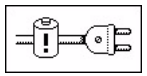
General notifications

Processing. An operation is in progress, please wait.

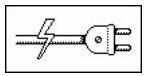
General failure. Shown when an operation fails. E.g. if you try to make a call when there is no number pre-configured in the device. Simultaneously, the **Failure** tone is played.

SIM failure. Shown when there is no SIM card inserted in the device, or if the PIN code was rejected. Simultaneously, the **Failure** tone is played.

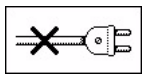
Charging notifications



Battery low. Shown when there is a need to recharge the battery (or replace it with another recharged battery). Simultaneously, the **Battery low** tone is played.



The device is connected to a charger. Settings during battery loading take place. Simultaneously, the **Charging** tone is played.



The device is disconnected from a charger. Settings during battery loading are ended, the device returns to normal operation.

Notifications referring calls or messages

Normal incoming call. If available, the name associated with the calling number/the phone number itself is shown on the bottom. Shown until the call is answered (to answer, press).

Initiating information call or position report. Press the key and hold it down while this notification is shown.

Sending a position report. Simultaneously, the **Message sending** tone is played.

Making an information call. Shown until the call is answered.

A call is in progress. Shown while the call is connected.

Starting emergency cycle notifications (displays on)

Starting emergency cycle (a long press): Emergency tone settings are switched on.

Press the BeneGuard button and hold it down until the wedges are all turned black.

Starting emergency cycle (two quick presses): Press the BeneGuard button briefly. Emergency tone settings are switched on.

Press the button again when the second circle starts blinking.

Emergency cycle cancellation period. A countdown timer is shown on the bottom. The timer counts the cancellation time left (in seconds). Simultaneously, the **Cancellation** tone is played. To cancel the emergency cycle, do it while this notification is shown (by pressing the key).

Other emergency cycle notifications (displays on)

Emergency cancellation. Shown right after the emergency cycle was cancelled.

Emergency completion. Shown when the emergency cycle ends normally, or when the emergency mode is ended manually.

Emergency call retry. Emergency numbers can be voice call numbers. The notification is shown when the device makes another call attempt to a number.

Emergency mode/Working. The device is through with emergency calls, but sending messages, message confirmation or position refresh is still going on.

Emergency confirmation message received. After receiving confirmation, the device will end resending of an emergency message. Simultaneously, the **Message reception** tone is played.

"**Post-emergency mode**". The GSM operator´s name is replaced by the emergency symbol. While this notification is shown, the device can be tracked by emergency numbers, also emergency tone and display settings are kept on. This mode can be terminated manually, by pressing the key.

Network emergency call (112, 911)

Network emergency call query. Shown when the BeneGuard button is pressed but making emergency cycle is NOT possible (e.g. SIM card is missing). You can still make network emergency call by pressing . You can also exit the query without making an emergency call by pressing .

Discreet emergency cycle (display notifications off)

During the discreet emergency cycle, the device looks like it is in stand-by mode. The only indicator of the ongoing emergency cycle is the handset turned black. When the handset turns white, the cycle is over (or cancelled). Also tones can be turned off.

Notifications referring sensor alerts

Pre-alarm for sensor alert is NOT set. Shown when "the cancel timer" is not configured, and Emergency cycle starts right away.
To mute the audible alert tone, press the lowmost side key .

Pre-alarm for sensor alert is set. The countdown timer shows that you still have 28 seconds time left to cancel the sensor alert if you so desire.
To cancel the emergency cycle, lift the device to vertical position. Do it while this notification is shown.
To let the emergency cycle take place: Do nothing.
To mute the audible alert tone, press the lowmost side key .

Alert state ended. Shown right after the emergency cycle is finished, or the sensor alert is cancelled.

Post-alarm state. Shown when the emergency cycle is completed, and the device makes audible alarms at regular intervals. You can receive phone calls and answer them by pressing . In order to stop the post-alarm tone, the device must be lift up to vertical position.

Alerting of missing sensor. The device cannot detect the sensor, and thus it will proceed as follows: It makes audible alarm and displays notification, and then sends an MPTP message (with status code 112, incl. last position) to the service center.

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BASIC KEY FUNCTIONS

TURNING THE DEVICE ON

1. Press the topmost side key and hold it down for a few seconds.
2. The logo is shown.

TURNING THE DEVICE OFF

1. Press the topmost side key and hold it down for a few seconds.
2. The logo is shown and the **Power down** tone is heard.

ADJUSTING VOLUME DURING A CALL

Press the lower side keys briefly.

SILENCING ALERT TONE

When the device alerts, you can silence the alert tone by pressing the lowmost side key briefly.

ANSWERING INCOMING CALLS

Press the key when the device alerts.

NOTE: The device may be configured to answer some/all incoming calls automatically.

DROPPING/ENDING/CANCELLING A CALL

Press the key briefly.

MAKING AN INFORMATION CALL

Press the key and hold it down for a few seconds. The device will call to configured number.

SENDING POSITION REPORT

1. Press the key and hold it down for a few seconds.
2. After sending the position report, the device may receive an incoming information call - depending on service.
3. When the device starts alerting, answer the call by pressing the key.

NOTE: The device may also be configured to answer the call automatically.

MAKING EMERGENCY CALLS AND SENDING EMERGENCY MESSAGES (EMERGENCY CYCLE)

Press the button according to configuration (a long press/two quick presses).

The device will make emergency calls and send emergency reports (emergency messages including position information) according to configuration.

CANCELLING EMERGENCY CYCLE

During cancellation period you may hear the cancellation tone and see timer showing time left for cancellation.

- To cancel the entire emergency cycle, press the key briefly during the cancellation period.
- When the emergency cycle has already started you can still cancel the rest of the calls and messages: Press the key and hold it down for five (5) seconds.

After succesful cancellation the device will return to normal operation and switch back to normal tone and display settings.

ENDING EMERGENCY MODE MANUALLY

The emergency mode may be configured to be terminated manually. This means, the emergency tone settings are kept on and the emergency numbers are permitted to track the device without further notice.

Emergency tones and tracking option are switched on from the moment you start the emergency cycle (by pressing the button) until you end the emergency mode (by pressing the briefly).

SOME CIRCUMSTANCES MAY AFFECT ON EMERGENCY CYCLE AND MODE

- Being in a shadow area of the GSM network at the time of the event.
- Poor GPS coverage during emergency cycle may cause the emergency cycle completion to slow down.
- Busy telephone lines when connecting (voice) calls.
- Message transmission errors caused by the carrier of an SMS, i.e. the network operator.

SENSOR ALERTS

To cancel sensor alert and prevent emergency cycle from starting, lift the device to vertical position. Do it while the countdown timer is still shown.

To let the emergency cycle take place: Do nothing.

To mute the audible alert tone, press the lowmost side key.

In case the device cannot detect the sensor, it will make audible alarm and inform the service center that the sensor is missing.

INCOMING/OUTGOING MPTP MESSAGES

The device may send or receive some MPTP messages. In most cases messages are either remote configuration/activation messages, some notifications, emergency reports or various types of position messages and they work autonomously according to configuration.

- In most cases there are no display notifications.
- Message sending/reception tones are configurable (beep sound as a default).

CARE AND MAINTENANCE

NOTE: The instructions below apply to the device, its accessories, batteries in use as well as batteries taken out of use.

- Dust and dirt may damage the moving parts of the device. Do not use or keep the device in dusty or dirty surroundings.
- Do not open the device or battery by yourself or pierce holes in it.
- Rough handling may break the circuitry inside the device. Do not drop, knock, twist or shake the device or its battery.
- Keep the device dry. Liquids contain minerals which could corrode electronic circuits. If the device gets wet, turn it off and dry the device and the battery immediately. Put the device into an upright position and let it dry. It is recommended that a dealer or service personnel check that the device functions properly.
- Even though the device is splashproof, do not wet the device unnecessarily or immerse it in water.
- Protect the device from heat. High temperatures may shorten the life of the electronical devices, melt or warp plastics and damage batteries. Do not warm up the device or battery or use it near fire.
- Do not short-circuit the battery. Exposing the metal strips of the battery to a close contact with a metallic object, such as a coin, a clip or a set of keys can cause accidental short-circuiting and damage the battery.
- Charge and recharge the battery only with the charger speci-

fied in the Operating instructions/Quick Guide. Use the battery only for the purpose it is intended.

- Clean the device with a soft cloth, dampened slightly with mild soapy water. Do not clean the device with harsh chemicals, solvents or other corrosive substances.
- Only allow service personnel authorised by the dealer to service the device.

SAFETY AND PRECAUTIONS

TELEMATICS PROTOCOL

MPTP (Mobile Phone Telematic Protocol) allows, among other things, tracking of the device over the SMS communication.

Automatically sent telematics messages are only allowed to authorised numbers configured in the device. Such numbers can be, e.g. emergency and service center numbers. Position of the device is retrieved by the GPS, or by the network parameters - the latter is a network-dependent service.

The carrier for telematics messages is an SMS-message. Deliveries of all messages is fully handled by and in the responsibility of the GSM network operator and services can vary substantially. The charge of a protocol message is determined on the contract by the service provider.

GPS

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The system is subject to changes that could affect the accuracy and performance of all GPS equipment.

EMERGENCY CALLS

The device is an aid and should never be relied upon as an only emergency device. Its functionality is dependent on GSM network and GPS satellites which may not be available all the time.

To make emergency calls, the device must be turned on and located in an area with adequate GSM network signal strength. Making BeneGuard emergency call also requires GPS satellite coverage and a valid SIM-card.

Emergency calls may not be possible on all GSM phone networks or when certain network services or phone features are in use. In unclear cases, consult the network operator.

GENERAL

- **Traffic:** Strictly adhere to all eventual European and national legislation and also honour other eventual safety recommendations when using the device while driving a vehicle. Place the device in its holder, do not leave it on the passenger seat or some other place where it can break loose in a collision or a sudden stop. When receiving a call in an awkward driving situation, you must always put safety before other priorities and courtesy. If you feel uncomfortable about using a device while driving, you should not use it.
- **Vehicles with air bags**: An air bag inflates with great force. Do not place objects, including either installed or portable wireless devices, in the area over the air bag or in the air bag deployment area.
- **External alert:** The use of the alert device to operate a vehicle´s lights or horn on public roads is not permitted.
- **Children:** Keep the device and its accessories away from small children to avoid causing injury to themselves or others. Damage to the device or its accessories is also thus avoided.
- **Power supply:** This equipment is intended for use with the specified power supplies listed in the Quick Guide/Operating Instructions. Any other usage will invalidate any approval given to this apparatus and may be dangerous.
- **Other accessories:** Any other accessories used should also be approved by the device manufacturer. Check the compatibility of new power supply units and other accessories at the dealer or manufacturer.
- **Connections**: All installations, connections and service regarding the device, its power supply and accessories should be approved by the device manufacturer. Use of any unauthorized accessories, modifications or attachments may be dangerous and voids the device warranty if said accessories cause damage or a defect to the device.
- **Magnetic fields**: The device contains small magnetic components. Even though the magnetic fields of the components are weak, they might damage magnetic cards, such as bank and credit cards. We recommend that you would keep the device away from magnetic cards.
- **Storing positions**: Position information is stored correctly in the device when the GPS is turned off (from the GPS menu) or powered off (by pressing the topmost side key). To prevent the memory from becoming corrupted, never power off the device by removing the battery.

RADIO FREQUENCY (RF) ENERGY

- **Aircrafts:** Turn your device off before boarding any aircraft and do not use the device while in the air. Besides being illegal, the use of a device in an aircraft may endanger the operation of the aircraft or disrupt the mobile network. Failure to comply with this instruction may lead to suspension or denial of mobile phone services, and possibly even legal action.
- **Hospitals:** Turn your device off before entering hospitals or other health care facilities where medical electronic equipment may be in use. Such devices can be extremely sensitive to radio frequency interference. Only use the device with permission and under the instruction of hospital staff.
- **Medical devices:** Remember that any personal medical devices (such as hearing aids or pacemakers) may be affected by RF energy if they are not adequately shielded. Consult the manufacturer or vendor of the equipment to determine the proper shielding.
- **Posted facilities and country-specific regulations:** Power off the device in any facility where posted notices require to turn off mobile phones. Also follow all the country-specific regulations applicable to where the device is used.
- **Potentially explosive atmospheres:** Turn off the device at refuelling points, e.g. gas stations. Also observe restrictions on the use of radio equipment in fuel depots, chemical plants or where blasting operations are in progress because remote control RF devices are often used to set off explosives. Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the device, its parts or accessories.
- **Other electronical equipment:** Using the device may cause interference with a vehicle's electronic equipment if it is not adequately shielded. Consult the manufacturer or the vehicle seller to determine the proper shielding.
- **Computers:** Remember that using the device close to a computer may cause interference. When using your device near such equipment keep a distance of about one meter.
- **Body parts:** When the device is in operation do not touch the antenna with eyes, mouth or bare skin to guarantee proper function.